

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An active pixel image sensor comprised of a plurality of pixels, at least one pixel comprising:

a photodetector;

a transistor;

a charge to voltage conversion region coupled to said photodetector and connected to the input of said transistor; and

a capacitor connected in parallel with the charge to voltage conversion region wherein the capacitor is designed to have a low voltage coefficient.

2. (Original) The device in claim 1, wherein said capacitor provides a capacitance independently of a voltage on said charge to voltage conversion node.

3. (Original) The device in claim 1, wherein said capacitor comprises a polysilicon to polysilicon double plate capacitor.

4. (Original) The device in claim 1, wherein said capacitor comprises a polysilicon to metal interconnect double plate capacitor.

5. (Original) The device in claim 1, wherein said capacitor comprises a metal interconnect to metal interconnect double plate capacitor.

6. (Original) An active pixel image sensor comprised of a plurality of pixels, at least one pixel comprising:

a photodetector;

a transistor;

said photodetector also operating as a charge to voltage conversion region connected to the input of said transistor; and

 a capacitor connected in parallel with photodetector wherein the capacitor is designed to have a low voltage coefficient.

7. (Original) The device in claim 6, wherein said capacitor provides a capacitance independently of a voltage on said charge to voltage conversion node.

8. (Original) The device in claim 6, wherein said capacitor comprises a polysilicon to polysilicon double plate capacitor.

9. (Original) The device in claim 6, wherein said capacitor comprises a polysilicon to metal interconnect double plate capacitor.

10. (Original) The device in claim 6, wherein said capacitor comprises a metal interconnect to metal interconnect double plate capacitor.

11. (Cancelled)

12. (Original) An active pixel image sensor comprised of a plurality of pixels, at least one pixel comprising:

 a photodetector;

 a transistor;

 a charge to voltage conversion region coupled to said photodetector and connected to the input of said transistor;

 wherein said transistor is configured to operate as a common source amplifier; and

 a capacitor connected in parallel with the charge to voltage conversion region wherein the capacitor is designed to have a low voltage coefficient.